Comparisons of Job Characteristics

Focus Occupation: Petroleum Engineers (17-2171)

Associated Occupation: First-Line Supervisors of Production and Operating Workers

(51-1011)

Compare Knowledge
Compare Skills
Compare Abilities
Compare Detailed Work Activities
Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 3'

Focus Occupation: Petroleum Engineers (17-2171)

Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Production and Processing	6.0	17.4	6.1	<<	Extensive education and/or training may be required
Administration and Management	8.4	14.0	12.9	0	Current knowledge level may be sufficient
Education and Training	9.2	11.1	7.0	<<	Extensive education and/or training may be required
Mechanical	6.8	10.9	9.3	<	Expanded education and/or training may be required
Mathematics	9.2	10.6	17.4	>>	Current knowledge level is likely more than sufficient
Personnel and Human Resources	5.6	10.2	7.2	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 7

Focus Occupation: Petroleum Engineers (17-2171)

Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Time Management	8.9	12.6	11.8	0	Current skill level may be sufficient
Coordination	9.1	12.0	12.0	0	Current skill level may be sufficient
Management of Personnel Resources	6.9	11.8	10.7	<	A higher skill level may be required
Negotiation	6.8	9.8	9.7	0	Current skill level may be sufficient

Management of Material Resources	3.7	5.8 7.3	Skill level is likely sufficient	
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The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 91

Focus Occupation: Petroleum Engineers (17-2171)

Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Expression	12.4	14.0	15.2	0	Current ability level may be sufficient
Oral Comprehension	12.5	13.3	15.0	>	Current ability level is likely sufficient
Written Comprehension	11.0	12.2	15.7	>>	Current ability level is likely more than sufficient
Problem Sensitivity	11.1	12.1	13.9	>	Current ability level is likely sufficient
Deductive Reasoning	10.6	11.4	13.0	>	Current ability level is likely sufficient
Speech Clarity	10.2	11.0	11.4	0	Current ability level may be sufficient
Written Expression	9.8	11.0	14.8	>>	Current ability level is likely more than sufficient
Inductive Reasoning	10.2	10.7	14.2	>>	Current ability level is likely more than sufficient
Originality	7.6	9.7	10.3	0	Current ability level may be sufficient
Fluency of Ideas	7.6	9.1	11.1	>	Current ability level is likely sufficient
Perceptual Speed	7.4	8.4	7.4	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 50

Focus Occupation: Petroleum Engineers (17-2171)

Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

Work Activities	Exclusivity of Activity
Assign work to staff or employees	30
Communicate technical information	4
Direct and coordinate activities of workers or staff	3
Prepare reports	8
Read blueprints	10
Read technical drawings	7

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 86

Focus Occupation: Petroleum Engineers (17-2171)
Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

Tools and Technologies	Exclusivity
Business function specific software	1
Computer data input devices	2
Computers	1
Content authoring and editing software	1
Data management and query software	1
Finance accounting and enterprise resource planning ERP software	2
Information exchange software	1
Network applications software	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.